



FIV p24 (P24CR1): sc-65669

BACKGROUND

Feline immunodeficiency virus (FIV) is a lentivirus that affects domestic cats throughout the world. Five subtypes of FIV exist, based on amino acid sequence differences in the viral envelope. The main mode of FIV transmission is through deep bite wounds, though it can also be spread via mucosal surfaces such as those in the mouth, rectum and vagina. FIV is similar to human immunodeficiency virus (HIV) in that it infects many cell types in its host, including CD4⁺ and CD8⁺ T lymphocytes, B lymphocytes and macrophages. FIV eventually leads to collapse of the immune system because of the infection and exhaustion of the CD4⁺ cells. FIV p120 and p24 are glycoproteins that localize to the envelope of the virus and are useful in diagnosis of the disease.

REFERENCES

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5. Stevens, R., et al. 2005. Pre-existing immunity to pathogenic *Listeria monocytogenes* does not prevent induction of immune responses to feline immunodeficiency virus by a novel recombinant *Listeria monocytogenes* vaccine. *Vaccine* 23: 1479-1490.
6. Assogba, B.D., et al. 2007. Mucosal administration of low-dose cell-associated feline immunodeficiency virus promotes viral latency. *J. Infect. Dis.* 195: 1184-1188.
7. Yamamoto, J.K., et al. 2007. Feline immunodeficiency virus pathogenesis and development of a dual-subtype feline-immunodeficiency-virus vaccine. *AIDS* 21: 547-563.
8. van der Meer, F.J., et al. 2007. Feline immunodeficiency virus infection is enhanced by feline bone marrow-derived dendritic cells. *J. Gen. Virol.* 88: 251-258.
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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

SOURCE

FIV p24 (P24CR1) is a mouse monoclonal antibody raised against FIV p24.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FIV p24 (P24CR1) is recommended for detection of Gag p24 of FIV origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Molecular Weight of FIV p24: 24 kDa.

RESEARCH USE

For research use only, not for use in diagnostic procedures.